

ABSTRACT

There is provided a catalyst for dimethyl carbonate synthesis which has a high conversion rate under the supercritical condition of CO_2 and can be handled easily.

- 5 The catalyst for dimethyl carbonate is obtained by loading SO_4^{2-} or PO_4^{3-} on a carrier composed of a compound having a solid acid site, and is used to produce dimethyl carbonate from acetone dimethyl carbonate and CO_2 in a supercritical state. The component having a solid acid site is
- 10 preferably one or more of ZrO_2 , Al_2O_3 , and TiO_2 .